



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-165-22,000-00-00

Company Black Tea Oil, LLC

Well Revis No.1

Field Otis-Albert

County Rush

State Kansas

Location 2310' FNL & 800' FWL

Other Services
DIL
MEI/BHCS

Sec: 27 Twp: 18S Rge: 16W

Permanent Datum Ground Level Elevation 1999
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2006
D.F.
G.L. 1999

Date 12/3/2012

Run Number One

Type Log CNL / CDL

Depth Driller 3693

Depth Logger 3692

Bottom Logged Interval 3671

Top Logged Interval 2900

Type Fluid In Hole Chemical

Salinity, PPM CL 5,000

Density 9.2

Level Full

Max. Rec. Temp. F 113

Operating Rig Time 4 Hours

Equipment -- Location 17 Days

Recorded By C. Desaire

Witnessed By Marc Downing

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

One 12.25

00

1060

8.625

23#

00

1060

Two 7.875

1060

TD

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

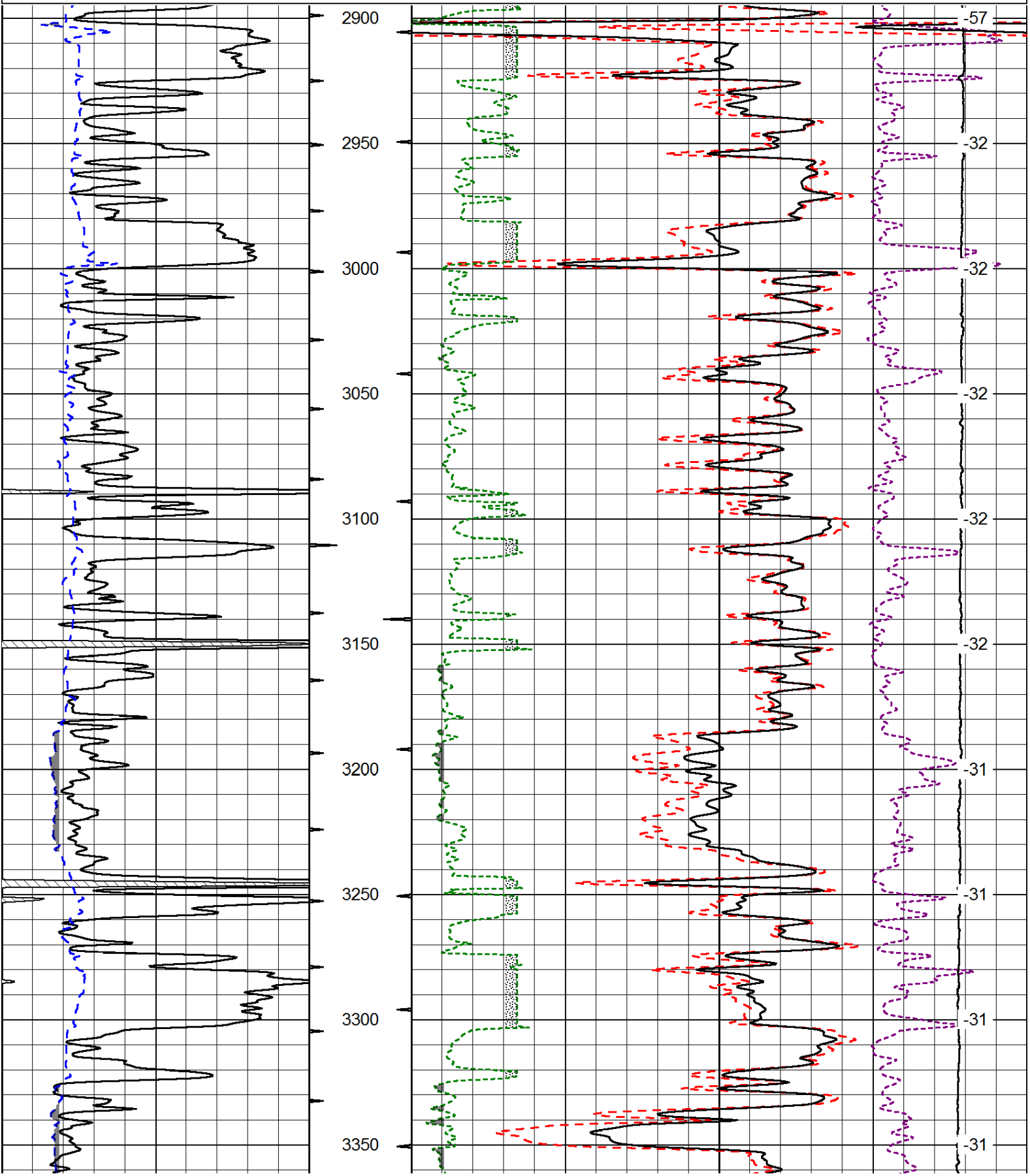
Thank you for using Log-Tech, Inc.
(785) 625-3858

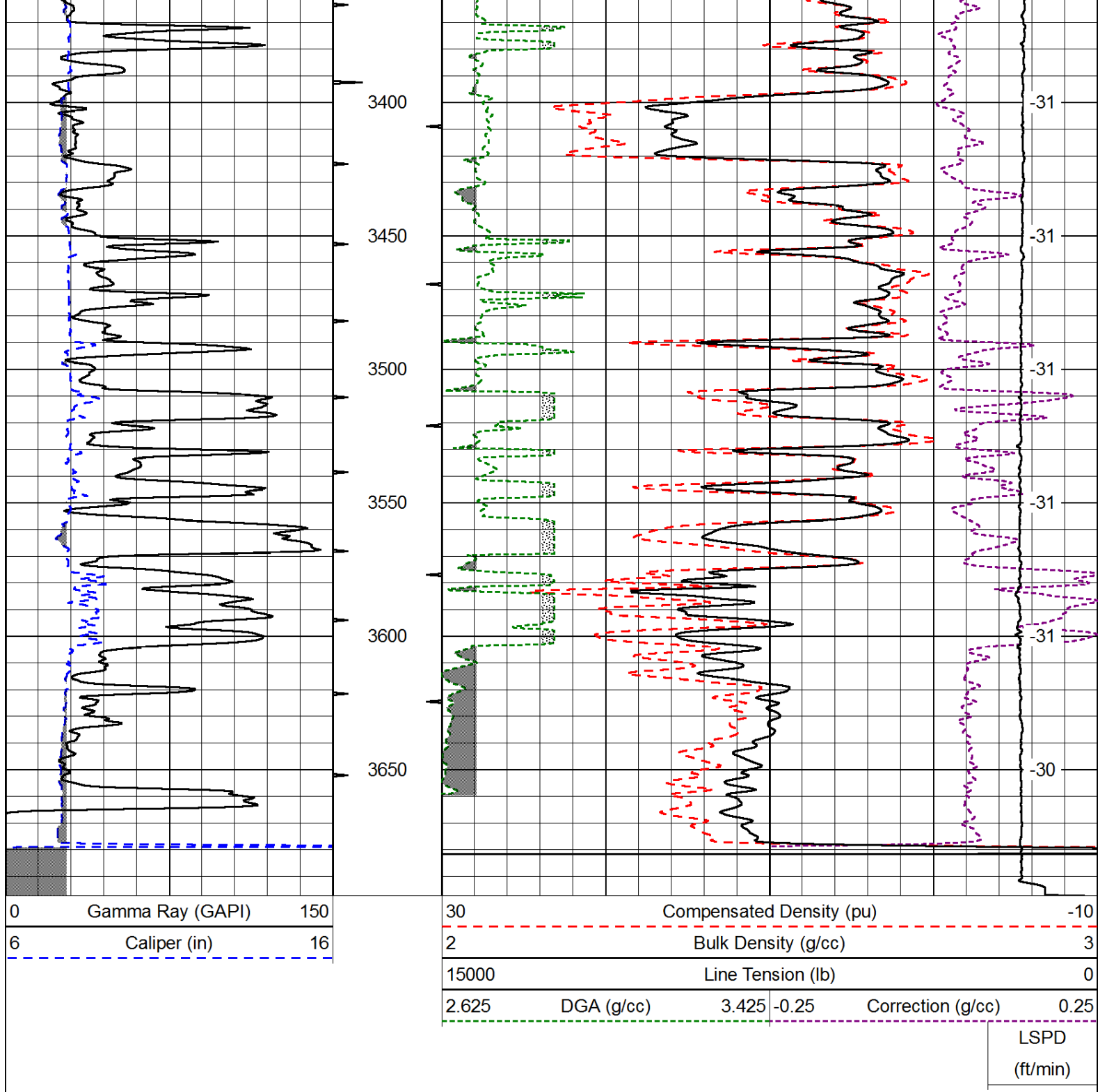
Rush Center KS, 12 E, 1/2 S, E Into

Database File: blackteahd.db
Dataset Pathname: dil/btstk
Presentation Format: cdl
Dataset Creation: Mon Dec 03 07:42:06 2012
Charted by: Depth in Feet scaled 1:600

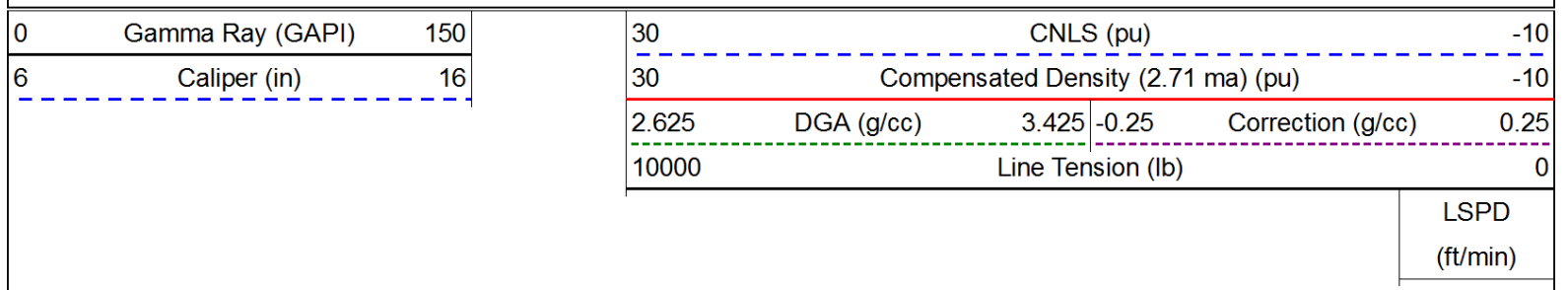
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

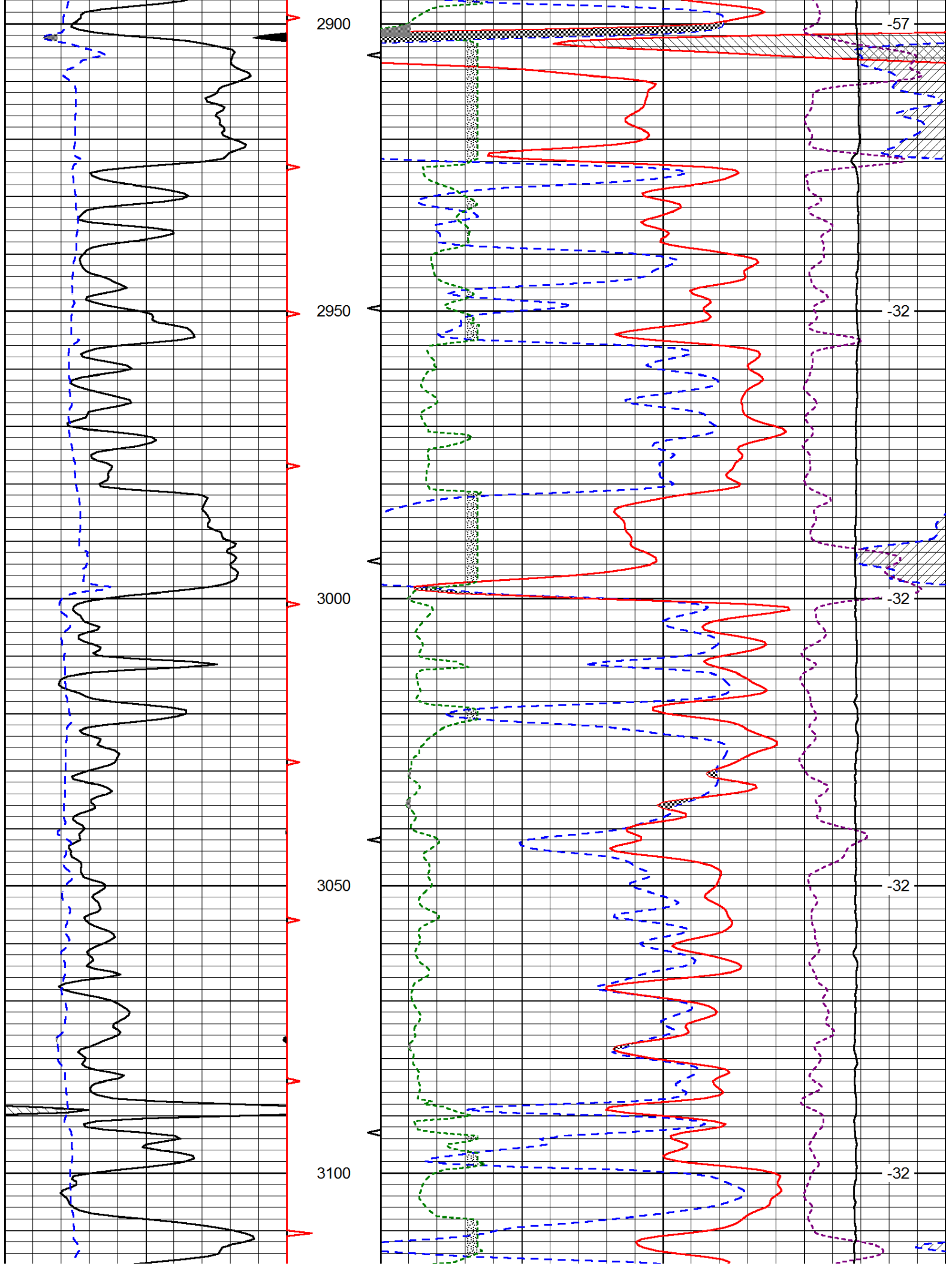
30	Compensated Density (pu)		-10
2	Bulk Density (g/cc)		3
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
	Correction (g/cc)		0.25
	LSPD		(ft/min)

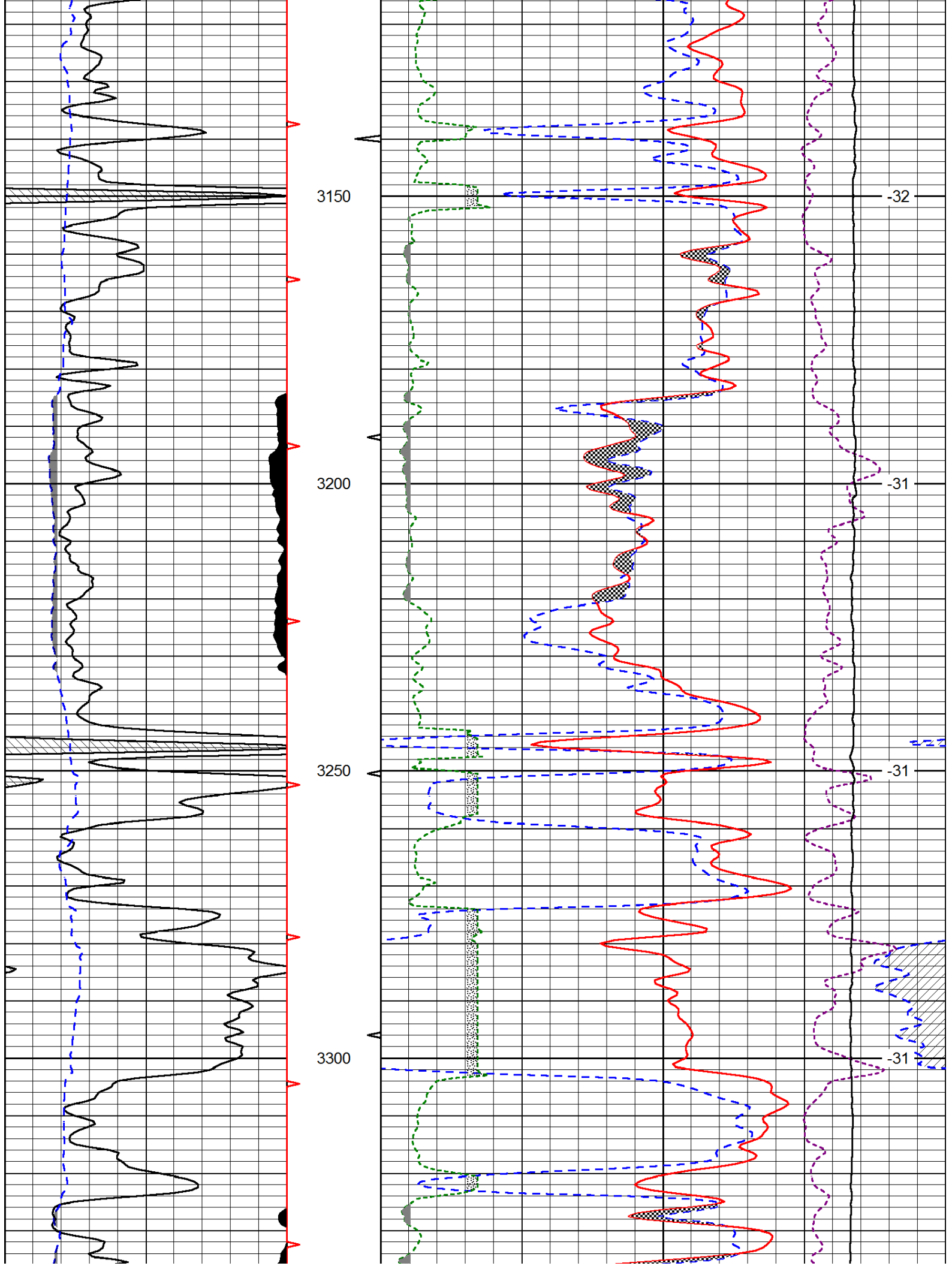


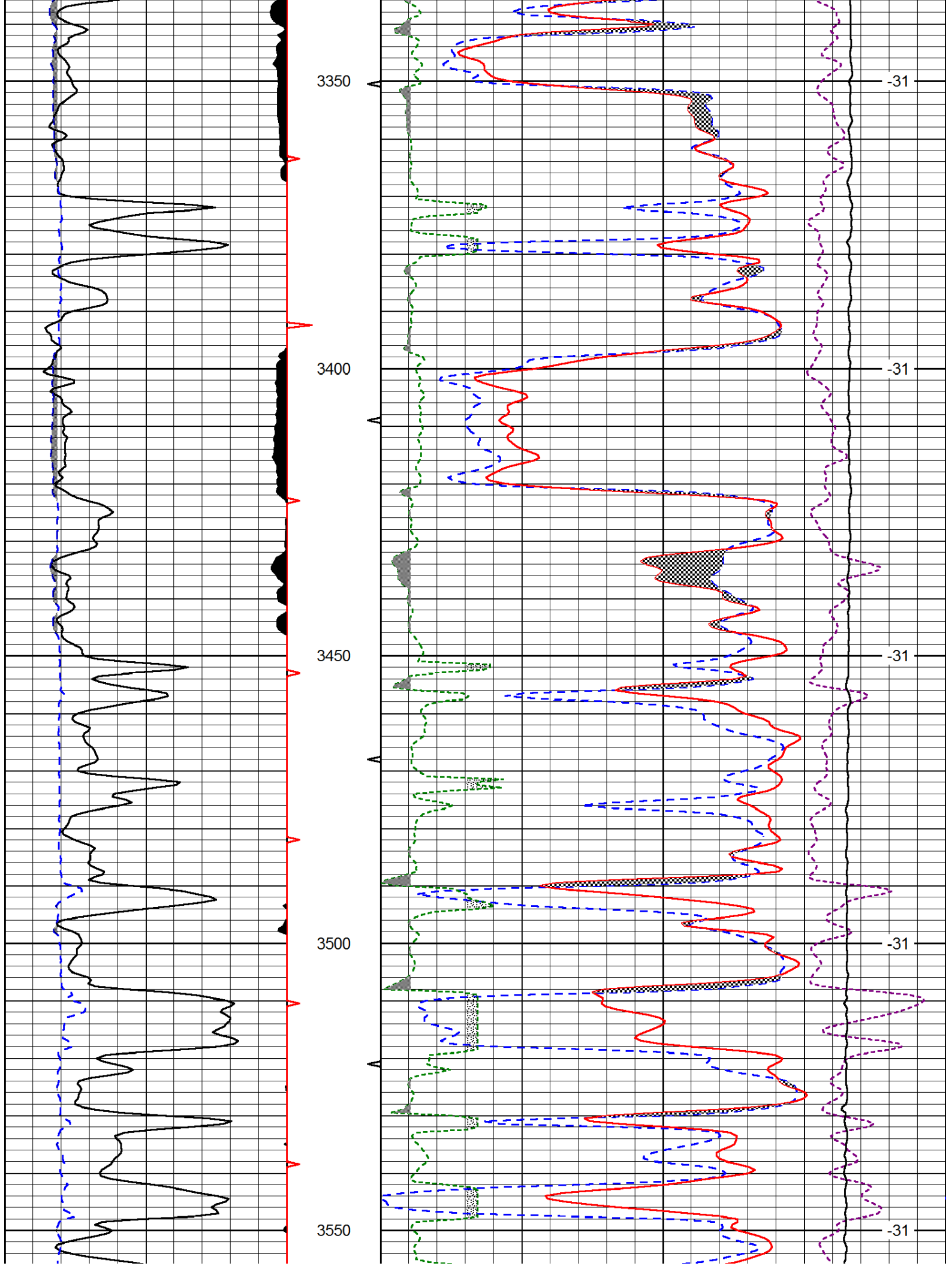


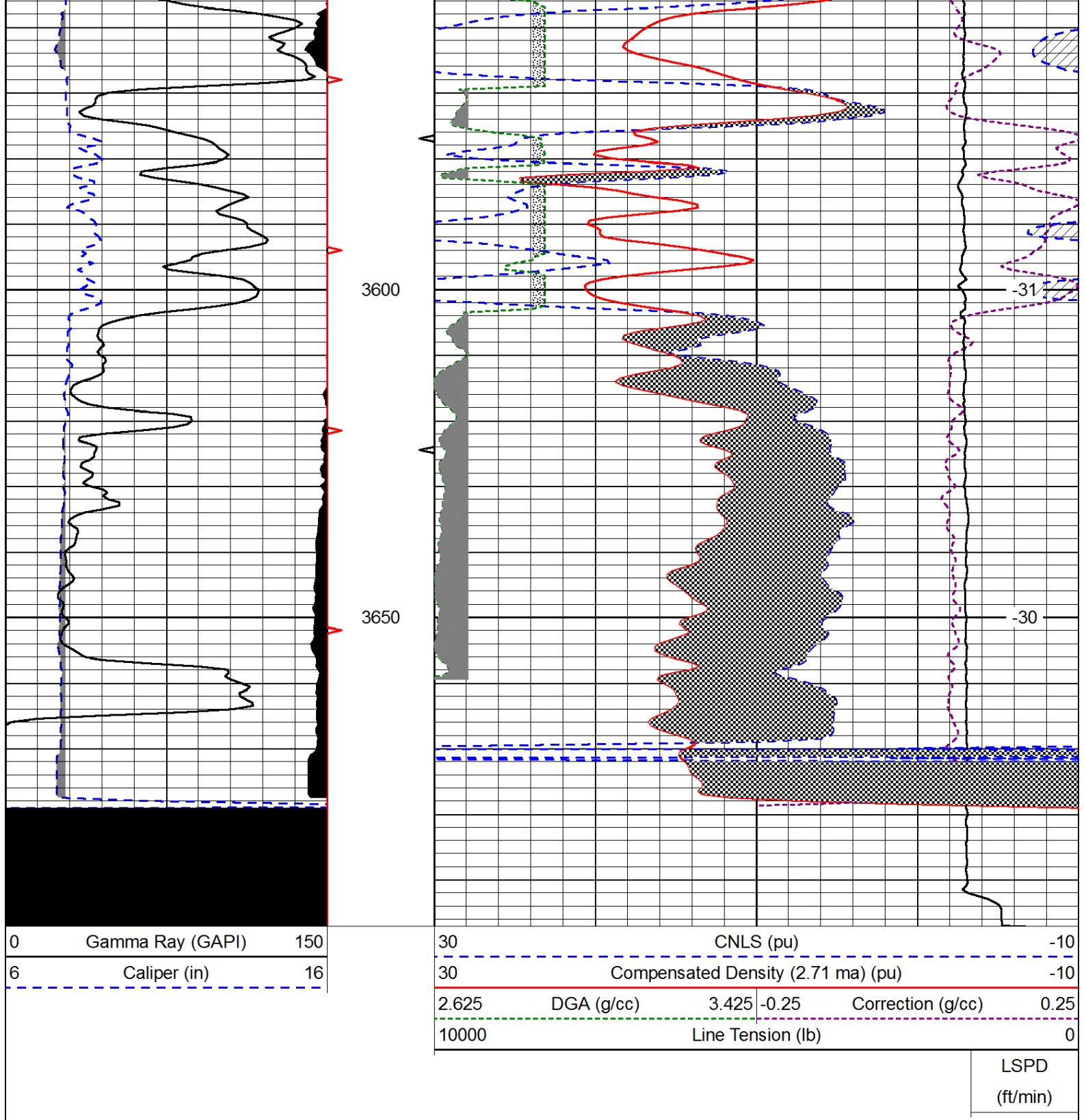
Database File: blackteahd.db
Dataset Pathname: dil/btstk
Presentation Format: cndlspec
Dataset Creation: Mon Dec 03 07:42:06 2012
Charted by: Depth in Feet scaled 1:240











0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	CNLS (pu)				-10
30	Compensated Density (2.71 ma) (pu)				-10
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
10000	Line Tension (lb)				0

LSPD
(ft/min)